# TOP 10 Year Birthday Party

## A little history

- 1975: Early 10' magnets had failed. Model magnet program started. 1 foot long magnets. The "doubler" was on the tunnel ceiling and beam had been extracted from the Main Ring.
- 1976 small Colliding Beam meeting in January.
  Pbar p proposed by Peter McIntyre. Doubler mover under the main ring. Colliding beams became a part of the program.

1975: Result of Colliding Beams Meeting

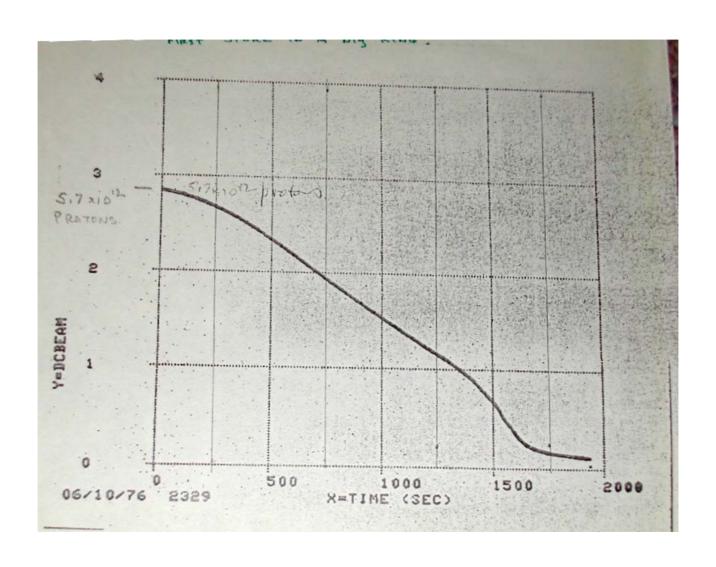


**Old position** 

**Main Ring** 

**New Doubler position** 

## 6-10-1976 First beam stored in the Main Ring at 200 GeV



- 1976 1978: A certain amount of chaos in the program. Nov11 1978 Lederman has the Armistice Day meeting of Colliding beam proponents. Decision: Finish the doubler first priority, then construct a pbar source for pbar-p collider.
- 1983 D0 organized under Paul Grannis
- 1985 First collisions observed by CDF in an engineering run. The source worked!

## BUT IN THE MEANTIME:

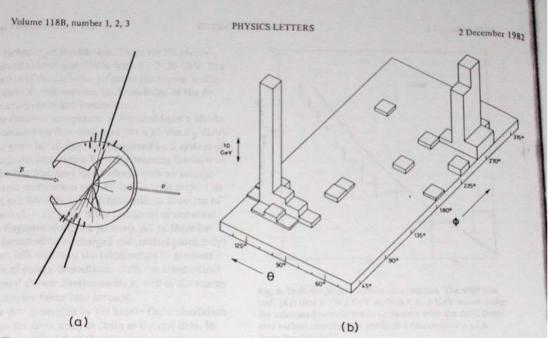


Fig. 4. Configuration of the event with the largest value of  $\Sigma E_T$ , 127 GeV (M = 140 GeV): (a) charged tracks pointing to the inner face of the central calorimeter are shown together with cell energies (indicated by heavy lines with lengths proportional to cell energies). (b) the cell energy distribution as a function of polar angle  $\theta$  and azimuth  $\phi$ .

Jets from UA2 1982

# W discovery and Missing $E_t$ UA1

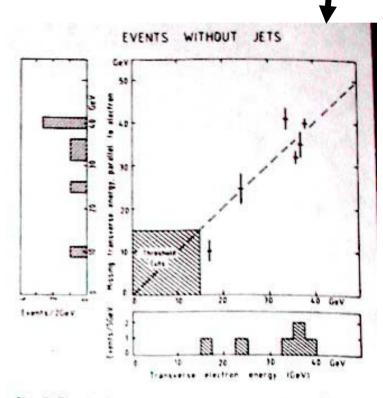


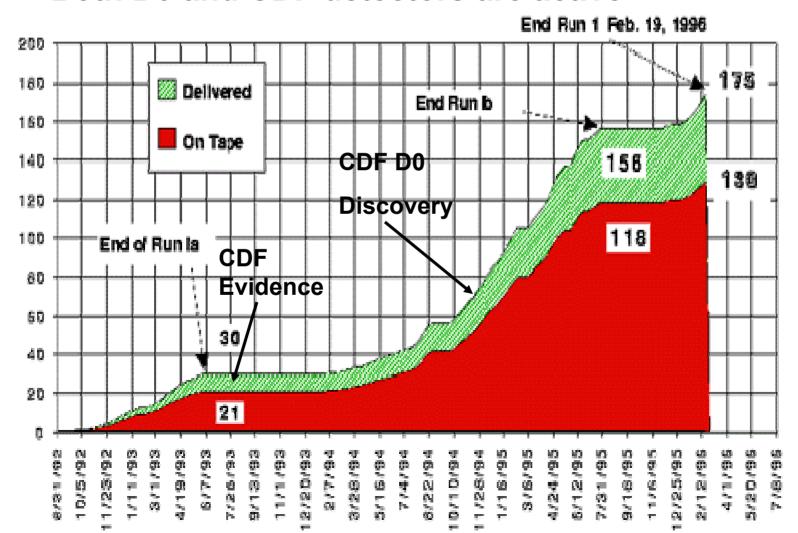
Fig. 8. The missing transverse energy component parallel to the electron, plotted versus the transverse electron energy for the final six electron events without jets (5 gondolas, 1 bouchon All the events in the gondolas appear well above the threshold cuts used in the searches.

 July 1982 DOE accepts the source design and releases funds for construction.

## So we jump to today's celebration

#### D0 and CDF both taking data

# Luminosity profile for Runs 1a and 1b Both D0 and CDF detectors are active



 The accelerator complex is the most complicated accelerator that has ever been built. Its successful completion and operation is why we can celebrate today and why we look forward to the next few years!

So: On to the celebration!